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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/728,036	12/03/2003	Cam L. Lu	03-1978 81641	03-1978 81641 9432		
7590 08/16/2005			EXAM	EXAMINER		
Leo J. Peters			SIEK, VUTHE			
LSI Logic Corp. 1551 McCarthy	oration Blvd., MS D-106	ART UNIT	PAPER NUMBER			
Milpitas, CA		2825				
			DATE MAILED: 08/16/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No	Applicant(s)				
Office Action Summary		10/728,03		LU ET AL.	(on)			
		Examiner		Art Unit	82			
	-	Vuthe Sieł		2825				
	- The MAILING DATE of this communication				Idress			
Period for								
THE N - Extens after S - If the p - If NO - Failure Any re	PRTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATION SIGNED FOR THIS COMMUNICATION S	ON. FR 1.136(a). In no evenue. In a reply within the statueriod will apply and wistatute, cause the apple.	int, however, may a reply be tin story minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timel the mailing date of this o	ly. ommunication.			
Status								
1)⊠	Responsive to communication(s) filed on g	03 Decemb <u>er 20</u>	003.					
<i>'</i> —								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ☒ Claim(s) 1-16 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 							
Application	on Papers							
10)⊠ 1	The specification is objected to by the Example drawing(s) filed on 03 December 2003. Applicant may not request that any objection to Replacement drawing sheet(s) including the countries of the oath or declaration is objected to by the	3 is/are: a) \square action the drawing(s) borrection is require	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 C	FR 1.121(d).			
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
AAA	(-)							
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94- nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date 12/3/03.		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	O-152)			

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DETAILED ACTION

1. This office action is in response to application 10/728,036 filed on 12/3/2003. Claims 1-16 remain pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1-16 are rejected under 35 U.S.C. 102(a) as being anticipated by Lin et al., "High-Frequency, At-Speed Scan Testing," IEEE, October 2003, pp. 17-25.
- 4. As to claims 1 and 9, Lin et al. teach substantially similar claimed invention of a method of generating a truncated scan test pattern for an integrated circuit (IC) design (see entire document) comprising a) receiving as input an IC design; b) estimating a number of transition delay fault test patterns and a corresponding number of top-off stuck-at fault patterns to achieve maximum stuck-at fault and transition delay fault coverage; c) truncating the estimated number of transition delay patterns to generate a truncated set of transition delay fault patterns so that the truncated set of transition delay fault patterns and the corresponding number of top-off stuck-at fault patterns achieve maximum stuck-at fault and transition delay fault coverage within a selected scan memory limit; and d) generating as output the truncated set of transition delay

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fault patterns and the corresponding number of top-off stuck-at fault patterns (especially see pages 21-24).

5. As to claims 2-8 and 10-16, Lin et al. teach wherein step (b) comprises generating a set of stuck-at fault test patterns (at least page 21); ordering the set of stuck-at fault patterns according to fault coverage to generate a set of ordered stuck-at fault patterns; generating a plot of fault coverage as a function of a number of stuck-at fault patterns from the ordered set of stuck-at fault patterns (at least page 21); generating a set of transition delay fault patterns for each scan clock domain in the integrated circuit design (Fig. 5-6); ordering the transition delay fault patterns in the set of transition delay fault patterns for each scan clock domain according to stuck-at fault coverage to generate an ordered set of transition delay fault patterns for each scan clock domain (pages 21-24); ordering each ordered set of transition delay fault patterns according to a number of transition delay fault patterns therein to generate the estimated number of transition delay fault patterns (pages 21-24); generating a plot of transition delay fault coverage as a function of a number of transition delay fault patterns (pages 21-24).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906. The examiner can normally be reached on Increase Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vuthe Siek

VUTHE SIEK PRIMARY EXAMINER